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Today@NPS

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Today@NPS showcases some of the speakers, conferences, experiments, lectures, and other events that take place at the Naval Postgraduate School on a daily basis. If you would like more information about any of the highlighted activities please contact the public affairs office at pao@nps.edu. To view more stories visit the [Today at NPS archive](#). NPS' photo galleries and graduation pictures can be found on the [Photo Gallery - Collections page](#).



U.S. Navy photo by MC1 Grant P. Ammon

Pacific Fleet Commander Named a Distinguished Alumnus of Naval Postgraduate School

MC1 Grant P. Ammon

Retired Rear Adm. Jerry Ellis, director of NPS' Undersea Warfare program, presents Adm. Cecil Haney, Commander of the U.S. Pacific Fleet (COMPACFLT), with a certificate naming Haney a Distinguished Alumnus of the Naval Postgraduate School during the university's annual Submarine Birthday Ball, April 28.

During Haney's visit to the NPS campus, he took the opportunity to view graduate students' research projects, meet with students from the international leadership, and attend the ball celebrating the 112th anniversary of the submarine force. Recognized for his extraordinary leadership, accomplished career as a naval officer, and for his continued support of graduate education, Haney was presented a certificate and named a distinguished alumnus.

"I have known Admiral Haney for many years and have worked with him in several assignments. He is a superb naval officer known for his quiet and reserved manner and his thoughtful and thorough analysis of issues," said Ellis. "Clearly, he is the right man to lead our great Pacific Fleet."

Haney, a 1987 graduate, earned Master of Science degrees in Engineering Acoustics and Systems Technology (Anti-Submarine Warfare) from NPS, both with distinction.

Navy's Fiscal Management Director Presents Budget to FM Students

MC1 Rob Rubio

Rear Adm. Joseph P. Mulloy, Deputy Assistant Secretary of the Navy for Budget and Director, Fiscal Management Division, OPNAV (N82), speaks to Financial Management (FM) students about the Navy's budget for fiscal year 2013 during a visit to NPS, April 26. As director of fiscal management for the Navy, he is the curriculum sponsor for the Financial Management (FM) program, and was on campus to conduct a periodic review of the FM curriculum.



U.S. Navy photo by MC1 Rob Rubio

Mulloy discussed the budget cuts that are currently impacting the Department of Defense and how they will likely continue to impact the department for the next several years. He remarked when speaking about the Navy, even under periods of stringent budgets, the force remains effectively forward deployed. "We provide great operations with tremendous flexibility and flow," he noted. He also added that the U.S. Navy has the unique ability to affect world events by bringing about a tangible change in tone and texture just by being present, conducting exercises.

Mulloy also addressed a number of specific budget issues, such as the needs of Navy and Marine Corps personnel, shipbuilding procurement plans, aircraft procurement, research and development investments, acquisitions and more. He closed his presentation by stating precisely what he was looking for in this cadre of financial managers. "The focus I need for you is better and more accurate budgets," he said. Mulloy is scheduled to return to NPS in November to continue his engagement with the FM program.



NPS Board of Advisors Gathers for Semi-Annual Meeting

MC1 Grant P. Ammon



U.S. Navy photo by MC1 Grant P. Ammon

President Dan Oliver delivers remarks during the NPS Board of Advisors subcommittee (BOA) semi-annual meeting, held on the Naval Postgraduate School campus, April 25-26. The BOA is a 15-member federal advisory committee that provides guidance on matters pertaining to NPS and its graduate education and research programs.

While on campus, members of the committee met to discuss topics such as the school's strategic plan, the Chief of Naval Operations' initiatives, energy and cyber programs, in addition to touring labs and campus facilities, and listening to presentations of student thesis projects.

For NPS student Lt. Tim Rochholz, the semi-annual meeting provided an opportunity to share his thesis work with the BOA. "It's truly an honor to present my work to the Board of Advisors, and to represent the student body," said Rochholz, who discussed his research on wave-powered unmanned surface vehicle operations. "It shows the kind of work we are doing here, and it's really cutting-edge stuff."

The Board, comprised of senior defense, academic and industry leaders, reports to the Secretary of the Navy, the Chief of Naval Operations and the Commandant of the Marine Corps. The next scheduled meeting is slated for this October in the National Capital Region. For more information on the BOA, visit: <http://www.nps.edu/Administration/BoardofAdvisors/BoardofAdvisors.html>.

NPS Provost, Chair Professor Honored With Ellis Island Hall of Fame Award

Javier Chagoya

Executive Vice President and Provost Dr. Leonard Ferrari, left, and Global Public Policy Academic Group Chair of Systemic Strategy and Complexity Capt. Wayne Porter, right, will soon be members of an exclusive community. During a May 12 ceremony to be held on Ellis Island in New York, both Ferrari and Porter will receive 2012 National Ethnic Coalition of Organizations (NECO) Ellis Island Medals of Honor. Ferrari and Porter are each being honored for different specific reasons, but similarly as Americans who contribute greatly to the fabric of the nation.

In the areas of technology and science, Ferrari has distinguished himself in the field of signal and image processing, where he has produced extremely efficient computational procedures. He has also served as a department head and executive director at some of the nation's most prestigious institutions of higher learning.

An NPS Chair Professor and graduate, Porter will be part of a special court that enters the Grand Hall during the Ellis Island ceremony. Porter recently served as the special strategic assistant to former Chairman of the Joint Chiefs of Staff Adm. Mike Mullen. During this time, he co-authored "A National Strategic Narrative," which has gained traction in the field of complex network theory.



U.S. Navy photo by Javier Chagoya



U.S. Navy photo by MC1 Leonardo Carrillo

Mathletics Competition Looking for Volunteers

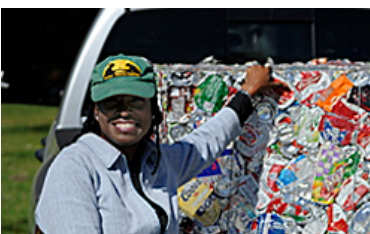
MC1 Rob Rubio

The top winners of last year's Mathletics competition receive awards during a closing ceremony in King Auditorium, May 14, 2011. More than 700 children from diverse communities participated in the annual event that promotes the study and understanding of mathematics through competition.

As the 2012 edition of the annual Mathletics event nears, organizers are seeking volunteers from the NPS student, faculty and staff communities to help make this year's event another success. The competition will once again take place on the NPS campus on May 12 from 0800-1500.

"Volunteers are an essential component to the success of Mathletics," remarked Dr. David Nickles, NPS Director of Research Communications and Outreach. NPS students, staff and faculty contribute their Saturday time by volunteering as trusted agents for gate access, proctoring exams, guiding the Mathletes to and from classrooms and around campus for various activities, and assisting with the awards ceremony, Nickles added.

For more information about the Mathletics competition or to volunteer, contact NPS public affairs at pao@nps.edu.



Going 'Navy Green' at NSA Monterey's Earth Day Celebration

MC1 Leonardo Carrillo

Myrna Hill of the Naval Support Activity Monterey (NSAM) Public Works Office sits with a solid block of crushed aluminum cans during NSAM's Fourth Annual Earth Day Celebration, held on the Naval Postgraduate School campus quad and in Spruance Plaza, Apr. 19. The enormous block was part of a contest challenging participants to guess how many cans were included.

"One of the main goals of holding an annual Earth Day event is to bring together the installation staff, tenants and students with the multitude of environmental organizations, government entities, and green businesses that make up our Monterey Bay community in education and celebration of our environment," said event coordinator Todd Wills of NSA Monterey. "Capt. David has made a



U.S. Navy photo by MC1 Leonardo Carrillo

commitment to be an environmentally-responsible neighbor, ensuring protection of the environment and public health and safety on NSA Monterey."

The Earth Day Committee showcased a multitude of environmental organizations, government entities, and green businesses that make up the Monterey Bay community. Event participants included the American Cetacean Society, Monterey Bay Aquarium, The Otter Project, Monterey Bay Unified Air District, MWR, Cal-Am Water, and Jim" The Smoothie Guy" Fowler. The event also provided the opportunity for attendees to get rid of their unwanted electronic waste, or e-waste, from home or office.



Photo illustration by Javier Chagoya

Ceremony to Honor Promotion and Tenure Actions for AY2012

MC1 Rob Rubio

On April 27, 13 NPS faculty will be recognized during a ceremony spotlighting NPS' Promotion and Tenure Actions for Academic Year 2012. Each of the individuals to be honored have demonstrated areas of accomplishment and leadership in their teaching fields that were significant in their candidacy for promotion, tenure or both.

Pictured above, from left to right, are Associate Professors Joshua Hacker from Meteorology and Nita Lewis Shattuck from Operations Research (OR), along with Professors Ronald Giachetti from Systems Engineering and Oleg Yakimenko from both Mechanical and Aerospace Engineering and Systems Engineering – each of whom have been awarded tenure. Also earning tenure, although not pictured, is Associate Professor Simson Garfinkel from Computer Science.

Receiving promotion to Associate Professor and tenure are David Alderson from OR, Jomana Amara from the Defense Resource Management Institute, Aruna Apte from the Graduate School of Business and Public Policy and Michael Freeman from Defense Analysis. Receiving promotion to Professor and awarded tenure is James "Clay" Moltz from National Security Affairs. Matthew Carlyle from OR and Christopher Frenzen from Applied Mathematics will receive promotion to Professor, and Meghan Quinn Kennedy from OR will receive promotion to Senior Lecturer.



U.S. Navy photo by MC1 Leonardo Carrillo

Freeman Global Holdings CEO Speaks at NPS

MC1 Leonardo Carrillo

Freeman Global Holdings Chief Executive Officer Kevin D. Freeman speaks to NPS students, faculty and staff during a Secretary of the Navy Guest Lecture (SGL) in King Auditorium, Apr. 17.

Freeman is the author of "Secret Weapon," a book that proposes his views on the causes for the 2008 financial meltdown that affected the United States and world economies. Freeman suggests the financial meltdown was not entirely caused by Wall Street executives or failed regulation, but by acts of what he calls economic warfare or economic terrorism.

"I believe the United States has been targeted," he said. "There are financial weapons pointed at us right now." Freeman pointed to rogue elements in communist China, Russia and to Islamic financial systems as possible culprits of economic warfare against the U.S. He also said that the U.S. economic system is still vulnerable to an attack, and he warned that a new attack was not unlikely in the near future.

During his presentation, Freeman also praised the work of the military, and the students and faculty at NPS, for their work and contributions to ensuring the safety of the country. "We need great strategic thinking," said Freeman, "and that's why I'm so honored to be at NPS, because there are great strategic thinkers here."

Faculty Chair Honored with Prestigious Fulbright Award

Amanda D. Stein

Distinguished Professor and Faculty Chair, Dr. Nancy Haegel, was recently honored with a Fulbright scholar award for research and lecturing for her work in near-field scanning optical microscopy. Her work will take her to Hebrew University in Israel, where she will have the opportunity to work with and learn from head of the Department of Applied Physics, Professor Aaron Lewis, a world-renowned expert and pioneer in near-field imaging techniques.

"It is a great honor to be selected by the Foreign Scholarship Board for a Fulbright Award to Israel," said Haegel. "I am very excited about the opportunity to participate in cutting-edge research at Hebrew University and also to help build the international relationships and collaborations that are central to the Fulbright Program. To do the best job in teaching and research, we always need to be learning new things and seeing the world from different perspectives. This is a great opportunity to do exactly that."

For the past several years, Haegel has been researching a new technique called transport imaging that uses near-field scanning optical microscopy, with the goal of better understanding solar cells and lasers. Haegel explained that her research involves taking pictures of incredibly small objects without allowing the light to diffract, resulting in crisper images.



U.S. Navy photo by Javier Chagoya

U.S. Navy photo by Javier Chagoya



U.S. Navy photo by Javier Chagoya

Physics Faculty, Student Use NPS' Lake Del Monte for Seaweb Research

Javier Chagoya

Ens. Rebecca King uses a laptop to collect range data between stationary submerged modems and a mobile node towed by her boat during preliminary Seaweb research, Apr. 16. King, a Space and Naval Warfare Systems Center Pacific (SSC PAC) research fellow, will be looking to establish a Seaweb network during the early phases of her thesis research, and is using NPS' own lake as an initial test bed.

Developed by Physics Research Professor Joe Rice, Seaweb is a complex system of underwater network technologies that use acoustic waves to communicate, much in the same way a surface wireless network uses radio waves. Underwater nodes establish a network of communication, while gateway nodes — either a fixed buoy or a mobile unmanned surface vehicle, for example — allow for transmission from Seaweb to an onshore command and control center. Rice has been actively developing Seaweb for more than a decade, and has proven its functionality multiple times in active sea trials.

King is conducting a series of experiments to improve localization performance compared to current inertial navigation. Stealthy submarines and unmanned underwater vehicles must surface periodically to re-establish their position via GPS due to errors inherent in this inertial navigation. With increased accuracy of Seaweb range data and tracking algorithms, submerged vehicles may be able to stay submerged and still effectively navigate, and communicate, thanks to the Seaweb network.



Photo courtesy Air Force Institute of Technology

President Oliver Keynotes AFIT's Latest Graduation Ceremony

Dale Kuska

NPS President Dan Oliver is pictured with the select group of distinguished graduates from the March 2012 class of the Air Force Institute of Technology (AFIT), Mar. 22. Oliver served as the keynote speaker for the institution's latest commencement ceremony held at the National Museum of the United States Air Force.

"This is a special treat for me ... Because of my time at the Naval Postgraduate School, and especially because of the time I have served on the Air University Board, and AFIT subcommittee of that board, that I have developed a very special admiration for the Air Force Institute of Technology," Oliver told the audience of graduating students, family members and guests. "Within the Department of Defense, and even within the federal government, NPS and AFIT provide a unique capability that cannot be duplicated feasibly anywhere else."

AFIT, located at Wright-Patterson Air Force Base, Ohio, is the Air Force's graduate school of engineering and management, as well as its institution for technical professional continuing education. AFIT's mission is to advance air, space and cyberspace power for the nation, its partners, and our armed forces by providing relevant defense-focused technical graduate and continuing education, research, and consultation.



U.S. Navy photo by MC1 Leonardo Carrillo

Business School Lecturer Builds Youth Leadership Skills

MC1 Leonardo Carrillo

Naval Postgraduate School (NPS) Lecturer of Management and CEO/cofounder of the educational organization KidLead, Dr. Alan Nelson, is shown with copies of two of his books, "Lead Young" and "KidLead: Growing Great Leaders," Apr. 11. KidLead is a non-profit educational organization that focuses on leadership development and training programs for children, teens and young adults.

"I wanted to do leadership development full time" said Nelson, "but I wasn't sure that I wanted to work with adults because I noticed that adults don't usually change." Nelson recognized that no one was developing leadership skills at an age when students were most moldable, so he turned his passion for leadership development — and more than 20 years of experience as a leadership development specialist — into the KidLead program.

He was joined by his wife Nancy, who shared his passion for child education, in designing the trainer certification for the KidLead Curricula. The books are the latest in Nelson's long list of works that includes 15 books and hundreds of published articles. The KidLead program works by certifying trainers in what they call the "LeadNow" and "LeadWell" materials, consisting of training modules and exercises that certified trainers would employ to teach kids. Nelson said that many schools throughout the U.S. are using the program and are showing great results.



U.S. Navy photo by Javier Chagoya

Defense Security Cooperation Agency Director Speaks to DRMI Students

MC1 Rob Rubio

Vice Adm. William E. Landay, III, NPS graduate and Director of Defense Security Cooperation Agency, speaks to Defense Resources Management Institute (DRMI) students about security assistance and cooperation during a campus visit, Apr. 11, part of the International Defense Management course. Landay manages a professional security cooperation workforce of military and civilian personnel located around the world, providing leadership, management and oversight for a diverse portfolio of security cooperation and partner capacity building efforts.

During his presentation, Landay noted five key points for assistance and cooperation: contribute to partner security, stabilize the region, enhance military to military cooperation, enable interoperability and building lasting relationships. "We are about the security of our nations," he said. "We know today and in the future that this is a coalition business when we talk about military operations."

He also noted that many of the people that have come through professional international military education courses, such as those at DRMI, go on to be presidents, senior leaders or ministers of their countries, or in senior key positions moving up through their respective organizations.

Landay is a Systems Technology (Command, Control, Communications, Computers and Intelligence) graduate from NPS.

Inspired by the Past, Focused on the Future

Javier Chagoya

Then Lt. Heather Hornick is photographed with a group of area girls on campus during last year's Girls Day In. The event provided middle school girls from throughout Monterey county with an opportunity to tour the campus, participate in games designed to encourage a pursuit in math and science studies, and to engage with mentors already actively employed in these areas. It's just one of several volunteering opportunities that now Lt. Cmdr. Hornick, a Meteorology/Oceanography Ph.D. candidate, is dedicated to in her off time through the Monterey Bay chapter of the Sea Service Leadership Association (SSLA).

The local SSLA chapter was established in February 2011 by NPS students for the networking and professional development of uniformed service women from NPS as well as several other local military commands. "I was selected to serve as president by Lt. Andi Phillips, who initiated the process of creating a new chapter, and retired Navy Capt. Carol O'Neal, who serves as our advisor," said Hornick.

With the recent announcement of available SSLA national positions at this year's Joint Women's Leadership Symposium in Washington, D.C., Hornick was nominated by a fellow officer who was also in attendance to a position on the national Board of Directors. The responsibilities of the Board of Directors are to assist and advise the national officers on policies, membership and events sponsored by SSLA.



U.S. Navy photo by MC3 John Fisher

Rep Helps Students Take Advantage of DKL Research Tools

MC1 Leonardo Carrillo

ProQuest Senior Customer Education and Training Specialist Kimberly Bastian speaks to NPS Information Technology Management Student, Navy Lt. Kyungnho Kim, about conducting research with the extensive database during a campus visit, Apr. 9. Bastian travels to locations all around the country where institutions use ProQuest databases, conducting training to staff members and users to maximize their research endeavors.

Based out of the Washington, D.C. area, Bastian does most of her work locally for high profile DOD and government institutions, but also travels the country to locations such as NPS and even private institutions.

Bastian says that it is important for these institutions to maximize their research potential because of the important work that is done at them. For DKL, ProQuest is one of its most important and widely used resources with 31 research databases covering a wide variety of topics in the sciences, social sciences, as well as current and historical newspapers. These databases range in topics as far reaching as aerospace, computer science, oceanography, business, economics, political science, public affairs, psychology and others.



U.S. Navy photo by MC1 Leonardo Carrillo

Workshop Explores Lessons Learned in Nonproliferation of WMD

MC1 Leonardo Carrillo

Dr. Sara Z. Kutchesfahani, a research associate with Los Alamos National Laboratory, leads a detailed discussion on the early history of the Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials, Mar. 30, part of the Multilateral Cooperation on Nonproliferation Workshop presented by NPS' Center on Contemporary Conflict.

The workshop, held at the nearby Portola Hotel and Conference Center in Monterey, brought experts from academia and non-governmental organizations from the United States and abroad to examine the effectiveness and lessons learned from existing multinational cooperative efforts in the control of weapons of mass destruction (WMD).

"The project's goals are to demonstrate the wide range of cooperative activities underway to prevent the spread of WMD, and to learn lessons from an examination of previous initiatives that could make multilateral efforts to stop WMD proliferation more effective in the future," said National Security Affairs Senior Lecturer Dr. Jeffrey W. Knopf, lead organizer of the workshop.



U.S. Navy photo by Javier Chagoya

Former USS Cole Commander Speaks at NPS

MC1 Leonardo Carrillo

Retired Cmdr. Kirk S. Lippold, former Commanding Officer (CO) of the USS Cole, speaks to Naval Postgraduate School students, faculty and staff during a Secretary of the Navy Guest Lecture, Apr. 3 in King Auditorium.

Lippold was the CO of the Cole when a suicide bomber attacked the ship on October 12, 2000 while refueling in the port of Aden, Yemen — an event widely recognized as one of the most heinous attacks on the U.S. by al Qaeda before 9/11. Lippold gave a step by





U.S. Navy photo by Javier Chagoya

Remen — an event widely recognized as one of the most brazen attacks on the U.S. by al Qaeda before 9/11. Lippold gave a step-by-step account of the events that morning, when a routine refueling stop turned into a fight for survival that claimed the lives of 17 sailors and injured 39 others.

"At 11:18 in the morning there was a thunderous explosion," said Lippold as he described the moments of the attack. Lippold said that it was the training and determination of the crew, along with the principles of their command philosophy and crisis management ability, that saved the ship that day.

He said the war on terror continues today, and it fell upon the officers on duty today to prepare for the next challenges. "We're still in the middle of this war and it's going to go on for a long time," he said. "Using the brain power and education this place gives you, you're the ones that are going to think through the problems with critical analysis that are going to keep this nation safe."



U.S. Navy photo by MC1 Rob Rubio

Foundation Quarterly Event Hosts Naval Special Warfare Development Group

MC1 Rob Rubio

NPS graduate Lt. Cmdr. Chris Fussell along with five additional members from the Naval Special Warfare Development Group (NSWDG) engage a packed house in the Mechanical and Aerospace Engineering Auditorium for an open panel discussion during the NPS Foundation's Quarterly Event, Mar. 29.

Many of the questions presented to NSWDG asked about the cultures of the regions they have been engaged in, the ability of the team to work with the local tribes, the acceptance of their presence, and support from allies and other U.S. entities.

The men remarked that the people who want to do America harm are certainly not gone. They noted that the cultures of the regions they were engaged in are made up of clans that are highly tribal oriented, and winning their trust is a tremendous and complex challenge. It was noted that having some sort of sovereign U.S. presence, such as a carrier, helps with regard to support and that any technological advantage is essential and used if readily available. They added that one system that is working correctly is the BUD/S (Basic Underwater Demolition/SEAL) selection process. "We train our own,"? and the process works, noted one of the panelists.

Sri Lankan Students Present Gift to NPS

MC1 Rob Rubio

Lt. Malaka Chandradasa, Lt. Col. Nishantha Manage, Lt. Col. Nishantha Hearath and Maj. Lakshan De Silva, from left to right, stand with NPS President Dan Oliver after presenting a plaque to the university, Mar. 28. The four students, all from the country of Sri Lanka,

are the very first students to attend NPS from that nation since it was renamed in 1972. Chandradasa serves in the Sri Lankan Navy, while Manage, Hearath and De Silva serve in the Sri Lankan Army.

Hearath noted to Oliver that they were all very grateful to have had the opportunity to attend NPS to further their educations and careers, and commented on the meaningful friendships that each had made with the other students they encountered on campus, both from the United States and from nations around the world.

Hearath, Manage and De Silva graduated last week during the winter quarter exercises, and Chandradasa will graduate in June following the spring quarter.



U.S. Navy photo by MC1 Rob Rubio



Information Dominance Officers Focus on Qualification During E-Week

MC1 Grant Ammon

Students at the Information Dominance Warfare Officer Personal Qualification Standard (IDWO PQS) course listen to a lecture delivered by Lt. Cmdr. Oscar Simmons. More than 25 naval Information Dominance Corp officers and one Army officer attend the IDWO PQS course Mar. 26–30, part of enrichment week activities at NPS.

Formal designation as an IDWO signifies that eligible Navy officers have acquired specific knowledge, skills and experience, and have demonstrated proficiency at the professional level of competence required for satisfactory performance of assigned duties. Developed and led by the Information Dominance Center for Excellence (IDCoE), the formal training provided a centralized location for officers seeking qualification to learn from officers already qualified as IDWO.

Qualification as an IDWO can only be obtained through the formal qualification program set forth by naval instruction OPNAVINST 1412.13. The Navy's IDC was formally established in 2009 and is comprised of Information Professional Officers, Information Warfare



U.S. Navy photo by MC1 Grant Ammon

Officers, Intelligence Officers, Oceanography Officers, members of the Space Cadre, and the enlisted ratings of IT, CI, IS, and AG.

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